

Appl. No. 09/683,924  
Amdt. dated 10/16/2003  
Reply to Office action of 04/16/2003

**Amendments to the Specification:**

Please replace paragraph [0001] with the following amended paragraph:

[0001] This invention relates to a comparator of image in the field of optical instruments. This image comparator includes an electronic image display, which shows a picture image for reference, a splitter mirror with a mirror forming an optical path, and making comparison between reference image and image of pattern selected, both images are projected to the same optical [plan] plane on the optical path, through overlapping process to achieve precise comparison. It is well known in the art that patterns comparison based on the method of superimposing, it can do for the pattern of simple and non-precise, but for the pattern of complicated such as printed circuit layout or image picture..

Please replace paragraph [0002] with the following amended paragraph:

[0002] The concept of this invention is based upon the character of splitter mirror, making partial penetration and reflection of the image, with mirror to form an optical path. Through this optical path, a reference image, and one image of pattern chosen for comparison, both images are projected to a splitter mirror, respectively, at a 45-degree angle of incidence. By way of, a splitter mirror set up in the optical path, two images within the equal optical distance to the splitter mirror, appears on the same optical [plan] plane is observable. An electronic image display provides the reference image, and such image is captured in advance by an electronic image scanning device such as an electronic camera or scanner for converting scanned light signal of a reference image into electronic digital signal, and then storing the digital signal into computer memory after computer processing, and using the fast searching ability of the computer to search for the required data and process the image by enlarging, reducing, mirroring, and rotating the image, etc., and the processed high resolution digital video signal is outputted to the high-resolution electronic display such as liquid crystal display (LCD), plasma display (P D), field emission display (FED), organic light emission display (OLED) etc. that provides accurate and clear reference image. Adjustment on the corresponding position between reference image and the targeted one for comparison is done so that the two images are overlapped one on the other. If it is a perfect match, there will be only a sole image presented. If the two images are inconsistent, the targeted pattern is then interpreted as not same as the original pattern.